

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3029566 JIV report S/N: 0001015

(Note: As practicable as possible the JIV report is to be signed in the field by all the participating parties)

## A. GENERAL INFORMATION:

1. Fountain Incident Number: 3029566 2. Type of incident\* OIL SPILL  
3. Name of Location 20" TRANS ESCRAVOS PIPELINE  
4. Name of nearest community UGBOGUNGUN State: DELTA 6. LGA WARRI SOUTH WEST  
7. Production Facility/Installation PIPELINE  
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY NIGERIA LIMITED / PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date Reported: 17<sup>TH</sup> SEPTEMBER, 2021  
b. Start date/time of Investigation: 22<sup>ND</sup> SEPTEMBER, 2021 AT 11:21 AM  
c. Investigation End date: 24<sup>TH</sup> SEPTEMBER, 2021 Day(s) on site: TWO (2) DAYS  
d. Description of spill point environment

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Firm soil                | <input type="checkbox"/> Loose soil        | <input type="checkbox"/> Recently excavated area |
| <input type="checkbox"/> Under water              | <input checked="" type="checkbox"/> Swampy | <input type="checkbox"/> Exposed pipe surface    |
| <input type="checkbox"/> Well Platform (on water) | <input type="checkbox"/> Drill Rig         | <input type="checkbox"/> Sand bag(s)             |

Additional observations around the spill point:

### e. Description of leak point (tick as applicable);

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Smooth round-edge hole   | <input type="checkbox"/> Rough-edge hole      | <input type="checkbox"/> Hack saw cut                                      |
| <input type="checkbox"/> Complete Rupture   | <input type="checkbox"/> Inward dent,         | <input type="checkbox"/> Well head tampering                               |
| <input type="checkbox"/> Failed Weld-on illegal hot tap valve                           | <input type="checkbox"/> Failed Clamp,        | <input type="checkbox"/> Missing Pipeline/Flowline                         |
| <input type="checkbox"/> Crude oil theft (illegal bunkering) point,                     | <input type="checkbox"/> Saver-pit over flow  | <input type="checkbox"/> Third party tampering with Clamp                  |
| <input type="checkbox"/> Third party tampering with valve setting                       | <input type="checkbox"/> Bulging Outward      | <input type="checkbox"/> Third party tampering with flange,                |
| <input type="checkbox"/> Flare System/Bund wall failure                                 | <input type="checkbox"/> Cold vent            | <input type="checkbox"/> Surge vessel overflow,                            |
| <input type="checkbox"/> Valve Failure  | <input type="checkbox"/> Relief valve failure | <input type="checkbox"/> Accidental 3 <sup>rd</sup> party equipment impact |
| <input type="checkbox"/> Tear ( )   |   |  |
| <input checked="" type="checkbox"/> Others (specify) <u>A PIN HOLE DUE TO CORROSION</u> |   |  |

### f. Incident caused by:

- ☐ Third party interference (Sabotage ☐; crude theft ☐; Line theft ☐; Accidental 3<sup>rd</sup> party damage ☐  
☒ Operational ☐ Others (including Mystery spills) \_\_\_\_\_

\*This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

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g. Spill Point Coordinates (\*Incidents  $\leq 100\text{m}$  apart to be aggregated into one Joint Investigation Report)

h. Measuring unit

WGS (84)

Northing:	Easting:
LATITUDE	LONGITUDE
5. 17393	5. 614299

## C. RISK ASSESSMENT

### 10. Details of Environment

i. Type of environment where spill occurred (select one):

☐ Land ☒ Swamp ☐ Water ☐ Seasonal swamp ☐ Shoreline/Waterfront

ii. Type of environment to which oil has spread:

☐ Land ☒ Swamp ☐ Waterbody (specify) \_\_\_\_\_

iii. Weather condition

☐ Dry ☒ Wet ☐ Windy ☐ Hot

### 11. Distance to Sensitive habitat within 100m radius

<input type="checkbox"/> Government reserved and designated protected area	[	,m]	} NONE SEEN WITHIN THE VICINITY
<input type="checkbox"/> Drinking water source	[	,m]	
<input type="checkbox"/> Surface water <input type="checkbox"/> Borehole			
<input type="checkbox"/> Built up Area	[	,m]	
<input type="checkbox"/> Residential Area <input type="checkbox"/> Commercial/Industrial Area			
<input type="checkbox"/> Farmlands	[	,m]	
<input type="checkbox"/> Fish Farm/Pond	[	,m]	
<input type="checkbox"/> Fishing net	[	,m]	
<input type="checkbox"/> Others (specify) _____	[	,m]	

### 12. Containment measures put in place:

☐ Booms ☐ Trench ☐ Dyke ☐ Pit ☐ Natural depression ☐ None

☒ Others: COFFER DAM

13. Any pictures or video coverage?

[✓] [N]

14. Further response/repair initiated as at the time of JIV?

[✓] [N]

If yes to item 14, give brief description:

CRUDE OIL RECOVERY

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15. Was there any disruption to the investigation? [Y] [N]

If yes to item 15 give brief description:

NOT APPLICABLE

16. Was JIV delayed? [☒] [N]

Reason(s):

- ☐ Delayed Community Access Approval ☐ Security Challenges ☒ Access constraint due to terrain  
☐ Others (specify) \_\_\_\_\_

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

17. Structures / Properties

S/N	Type of Structures	Description	Size	Number	Comments
	NONE	WITHIN			AREA OF IMPACT

18. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	NONE					WITHIN AREA OF IMPACT

19. Fish/Nets/Ponds

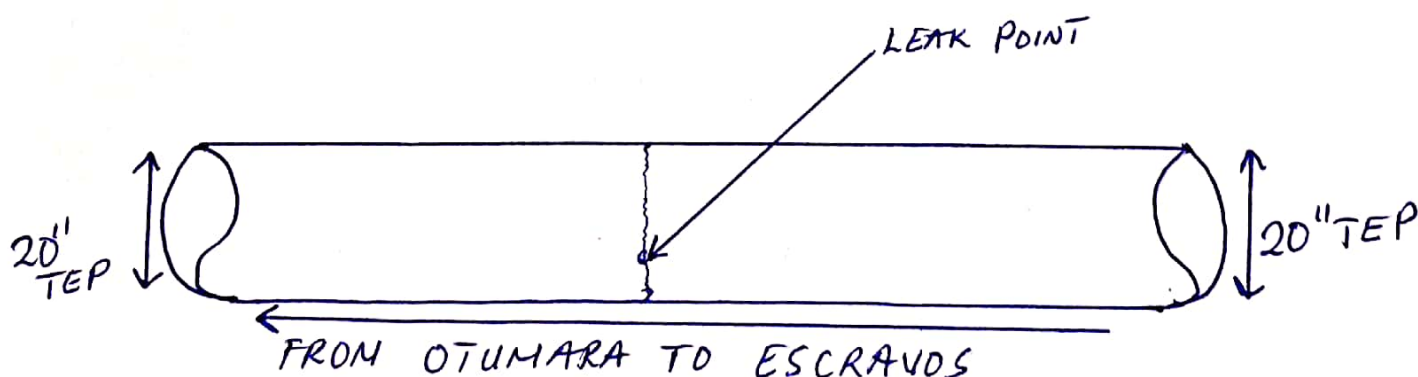
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
	NONE	WITHIN		AREA OF IMPACT

20. Others (Specify) e.g. Animal Traps

S/N	Others	Description	Quantity/Size	Comments
	NONE	WITHIN		AREA OF IMPACT

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1)

A SECTION OF 20" TRANS ESCRAVOS PIPELINE AT UGBOEGUNGUN SHOWING A PIN HOLE AT 9 O'CLOCK POSITION.



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**F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION**

21. Impacted area boundary Coordinates (If more, Print and attach as Appendix)

S/N	Northing	Easting
	5. 61419	5. 17393
	5. 61427	5. 17386
	5. 61429	5. 17393
	5. 61427	5. 17403
	5. 61434	5. 17405
	5. 61439	5. 17401

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## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.02 Ha
- Impact within SPDC R.O.W YES
- Impact outside SPDC R.O.W YES

\* Round off to 2 decimal places if area is  $\geq 100 \text{ m}^2$  or to 4 decimal places if area is  $< 100 \text{ m}^2$  (e.g. 14.55, 0.0051, 0.0009)

\* Express in Hectares (Ha)

### b. Volume of oil recovered before completion of JIV ( $V_{\text{rec}}$ ):

Recovered oil $V_{\text{rec}}$ :	<u>NIL</u>	Barrels
----------------------------------	------------	---------

Controlled recovery/evacuation from source with no impact to environment:

	Barrels
--	---------

### c. Net Estimated Spilled Volume $V_{\text{Est}}$ (bbls)\* =

2.92 BARREL

Estimated Reported Volume\*\*  $V_{\text{rep}}$  (bbls) =

3 BARREL

#### \*Notes:

- Volume estimation was done using an excel based tool. (see attached for details on the calculation)
- Reported spilled volume is an estimate

Write other relevant notes taken into consideration for volume estimation or cause of spill:

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site; Conversion of  $\text{m}^3$  to barrels is Volume ( $\text{m}^3$ )  $\times 6.29$ ; \*\*Round up estimated volume to next whole number using the following rules:

- Any spill volume in excess of 1 bbl is rounded up to the next whole number.
- Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbl ----- Reported volume = 16 bbl  
Calculated volume = 0.35 bbl ----- Reported volume = 0.4 bbl  
Calculated volume = 0.01 bbl ----- Reported volume = 0.1 bbl.

Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JIV procedure to use appropriate steps for column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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## d. General Status of the site

i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out	<input type="checkbox"/>
ii. Investigation of the incident site showed that there is residual impact on site requiring further works	<input checked="" type="checkbox"/>

## e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- Host Community: ☒
- Department of Petroleum Resources [DPR]: ☒
- National Oil Spill Detection and Response Agency [NOSDRA]: ☒
- State Ministry of Environment [SME]: ☒
- The Shell Petroleum Development Company [SPDC]: ☒
- *Separate DPR form has been filled out with same findings* ☒
- *Separate NOSDRA form has been filled out with same findings* ☒
- *Separate SME form has been filled out with same findings* ☒

*Tick as applicable*

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## f. Appendix 1: Overview sketch of the site

